

B.E. (Computer Science Engineering) Sixth Semester (C.B.S.)
Software Engineering & Project Management

P. Pages : 2

Time : Three Hours



TKN/KS/16/7495

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Questions 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data wherever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.
 11. Use of non programmable calculator is permitted.

1. a) Define software engineering. Explain software characteristics in detail. **6**
b) Explain software engineering - a layered technology. **7**
OR
2. a) Explain spiral model for s/w development. State its advantages and drawbacks. **7**
b) Explain Agile process model for developing the software. **6**
3. a) What is FAST? Explain in detail. **7**
b) Explain system Engineering Hierarchy in detail. **6**
OR
4. a) Explain in detail, What is SRS? Also explain its contents. **7**
b) Explain different components of computer Based system. **6**
5. a) Explain behavioural model in detail. **6**
b) Explain the elements of Analysis Model, in detail. **8**
OR
6. a) Give and explain any five design principles in detail. **5**
b) Explain following design concepts: **6**
i) Abstraction. ii) Information hiding.
c) Write a note on Modularity. **3**
7. Explain in detail white Box testing and Black box testing. **14**
OR
8. a) Explain how unit testing is performed for software. **4**
b) What do you mean by Alpha testing & Beta testing. **3**

- c) What is the difference between software testing and debugging?
Explain Debugging process in detail. 7
9. a) What are Metrics, Measures and Indicators? 3
b) Explain process metric in detail. 6
c) What is software maturity Index?
Why it is used? How it is computed? 4
- OR**
10. a) List and explain the activities involved in software quality Assurance. 7
b) What is FTR? Explain in detail. 6
11. a) Write short note on RMMM plan. 6
b) Explain software reengineering process in detail. 7
- OR**
12. a) Write short notes on: 8
i) Change Management. ii) Reverse Engineering.
b) How we perform project scheduling in software engineering? Explain. 5

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